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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/476,219	12/30/1999	Robert J. Fite	884.182US1	7477
21186 7590 01/03/2007 SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.				IINER
P.O. BOX 2938			HAN, YOUNGHUIE JESSICA	
MINNEAPOLIS, MN 55402			ART UNIT	PAPER NUMBER
			2838	
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	01/03/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)	
Office Action Summary		09/476,219	FITE, ROBERT J.	
		Examiner	Art Unit	
		Y. J. Han	2838	
Period f	The MAILING DATE of this communication a or Reply	ppears on the cover sheet v	ith the correspondence address	
WHI0 - Exte after - If No - Failt Any	HORTENED STATUTORY PERIOD FOR REPCHEVER IS LONGER, FROM THE MAILING ensions of time may be available under the provisions of 37 CFR of SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory perioure to reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mail and patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may a d will apply and will expire SIX (6) MO ute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communica BANDONED (35 U.S.C. § 133).	
Status				
1)⊠	Responsive to communication(s) filed on 16	October 2006.		
2a)⊠	This action is FINAL . 2b) Th	is action is non-final.		
3)[Since this application is in condition for allow	rance except for formal ma	ters, prosecution as to the merit	s is
	closed in accordance with the practice under	Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.	
Disposit	ion of Claims			
4)⊠	Claim(s) 1-16 is/are pending in the application	n.		
	4a) Of the above claim(s) is/are withdr			
5)⊠	Claim(s) 1-7 and 9-16 is/are allowed.			
6)⊠	Claim(s) <u>8</u> is/are rejected.			
7)	Claim(s) is/are objected to.			
8)	Claim(s) are subject to restriction and	or election requirement.		
Applicat	ion Papers			
9)□	The specification is objected to by the Examir	ner.		
10)	The drawing(s) filed on is/are: a) ac	ccepted or b) objected to	by the Examiner.	
	Applicant may not request that any objection to th		-	
	Replacement drawing sheet(s) including the corre			21(d).
11)	The oath or declaration is objected to by the B	Examiner. Note the attache	d Office Action or form PTO-152	2.
Priority (under 35 U.S.C. § 119			
12)	Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a)	☐ All b)☐ Some * c)☐ None of:			
	1. Certified copies of the priority document	nts have been received.		
	2. Certified copies of the priority documer	nts have been received in A	Application No	
	3. Copies of the certified copies of the pri		received in this National Stage	
	application from the International Bure			
* (See the attached detailed Office action for a lis	st of the certified copies no	received.	
Attachmen		🗖		
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date	
3) 🔲 Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/06 or No(s)/Mail Date		Informal Patent Application (PTO-152)	

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claim 8 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 8 recites "adjusting the voltage signal indicating the sensed output current such that the voltage is at a maximum voltage level when the current drawn is at a maximum operating load current level and the voltage is at a minimum voltage level when the current drawn is at a minimum operating load current level, wherein the minimum operating load current level is greater than zero current and the provided voltage remains at the minimum operating voltage level if the current drawn is equal to or less than the minimum operating load current."

The support for the underlined limitations is not found in the specification. Moreover, claim 8 as recited contradicts applicant's argument that "the pending claims as amended each clearly recite that the output voltage remains at the maximum operating voltage level if the current drawn is equal to or less than the minimum operating current load current, where the minimum operating load current is greater than zero current, the pending claims have been shown to be distinct from the cited art."

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 4. As best understood, claim 8 is rejected under 35 U.S.C. 102(a) as being anticipated by Redl et al (6,064,187).

Redl et al discloses sensing an output current (64) drawn from the DC-DC converter; converting the sensed output current to a voltage signal indicating the sensed output current (78/76); adjusting the voltage signal indicating the sensed output current such that the voltage is at a minimum voltage level when the current drawn is at a maximum load current level and the voltage is at a maximum operating voltage level when the current drawn is at a minimum but nonzero operating load current level (see Figures 10a-b); and adding/subtracting the adjusted voltage signal from the voltage provided by the DC-DC converter (see Figure 9, abs., and col. 10, line 65 thru col. 11 line 15).

5. As best understood, claim 8 is rejected under 35 U.S.C. 102(a) as being anticipated by Rincon-Mora et al (6,188,211).

Rincon-Mora et al discloses sensing an output current (40) drawn from the DC-DC converter; converting the sensed output current to a voltage signal indicating the sensed output current (40,42); adjusting the voltage signal indicating the sensed output current such that the voltage is at a minimum operating voltage level when the current drawn is at a maximum load current level and the voltage is at a maximum operating voltage level when the current drawn is at a minimum but nonzero operating load current level (see Figures 2a-b); and subtracting the adjusted voltage signal from the voltage provided by the DC-DC converter (see Figure 1, and col. 6, line 35 thru col. 7 line 52).

6. As best understood, claim 8 is rejected under 35 U.S.C. 102(a) as being anticipated by the acknowledged prior art (Figures 1 and 2).

Applicant's invention is no different than the acknowledged prior art. Prior art Figures 1 and 2 are no different than the applicant's invention of Figures 4 and 5. Applicant is requested to point out how the admitted prior art Figures 1 and 2 are different from the applicant's Figures 4 and 5.

Response to Argument

7. The applicant's argument directed to the differences between the instant invention and the applied reference has been fully considered but is not deemed to be persuasive as applied to the claim 8. As pointed out above, claim 8 is inconsistent with the applicant's argument.

Allowable Subject Matter

8. Claims 1-7 and 9-16 are allowed.

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

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CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Y. J. Han whose telephone number is 571-272-2078. The examiner can normally be reached on Mon-Fri 6:30am-3:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Karl Easthom can be reached on 571-272-1989. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

J. Han

Primary Examiner
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